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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/756,407	01/14/2004		Kouta Fukui	FS-F03223-01	2618
37398	7590	03/23/2005		EXAMINER	
TAIYO CC		ION VIS HIGHWAY	CHEA, THORL		
#412, NORT		A12 IIIÓII MY I		ART UNIT	PAPER NUMBER
ARLINGTON, VA 22202				1752	

DATE MAILED: 03/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Cummen.	10/756,407	FUKUI, KOUTA					
Office Action Summary	Examiner	Art Unit					
	Thorl Chea	1752					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 14 Ja	anuary 2004.						
2a) This action is <b>FINAL</b> . 2b) ☐ This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-17 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.						
Application Papers							
	epted or b) objected to by the I						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·	•					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)     Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)					
S Patent and Trademark Office							

Application/Control Number: 10/756,407

Art Unit: 1752

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 4-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Goto (Pub. No.:US 2002/0039707), Siga et al (US Patent No. 4,332,889) and Toya et al (US Patent No. 5,998,126).

Goto discloses a photothermographic material substantially as claimed. The material contains an image forming layer haling a photosensitive silver halide, a non-photosensitive organic silver salt, a reducing agent and a compound defined as silver saving-agent defined in the present claimed invention. The silver halide includes silver iodobromide and silver iodide. See the photothermographic material on pages 15-19, Example 1; page 5, [0054], [0061]; pages 10-11, [0080] to [0086]. The amount of silver halide and organic silver salts from 0.3 to 2.2 g/m<sup>2</sup> on page 5, [0059]; and the bisphenol reducing on page 14, [0103]. Siga et al (US Patent no. 4,332,889) disclose a use of silver halide having iodide content at least 30 mole % include silver

Art Unit: 1752

iodide, and silver iodobromide having molar ratio of silver iodide to silver bromide preferably from 30/70 to 98/2, more preferably 50/50 to 95/5 to provide heat developable material with excellence in both stability and sensitivity. See column 6, lines 50-68 and column 2, lines 5-10. Toya et al (US Patent No. 5,998,126) discloses a photographic material containing silver halide having iodide content from 0.1 to 40 mole % and the material is capable to be exposed using laser beam from 300 to 700 nm. See column 16, lines 50-64 and column 2, lines 1-11.

Goto may not exemplified the use of the silver iodide, but suggest the use thereof as an alternative to other silver halide such as silver chloride, silver chlorobromide, silver iodochlorobromide, silver bromoiodide. However, the benefit of the use of silver halide having iodide in the heat-developable material has been known in Siga et al to provide a heat-developable with an excellence in both stability and sensitivity. Therefore, it would have been obvious to the worker of ordinary skill in the art at the time the invention selected the silver iodide taught in Goto or the silver halide having high iodide content taught in Siaga et al or Toya et al with a reasonable expectation of achieving a material having excellent in both stability and sensitivity, and thereby provide a material as claimed.

4. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Katoh (Pu.No. 2001/0038977). Siga et al (US Patent No. 4,332,889) and Toya et al (US Patent No. 5,998,126).

Kato discloses a multilayer photothermographic material a layer containing silver-supplying an organic silver salt, a reducing agent, an organic binder and substantially no photosensitive silver halide and a separate layer containing a photosensitive layer, and the heat-developable material further containing an electron transfer such as hydrazine derivative and alkene

Art Unit: 1752

deriveative. The silver halide includes any of silver chloride, silver iodochlorobromide, silver bromide, silver iodobromide, and silver chlorobromide. See pages 35-36, claims 1-15 and page 18, [0086].

Siga et al (US Patent no. 4,332,889) discloses a use of silver halide having iodide content at least 30 mole % include silver iodide, and silver iodobromide having molar ratio of silver iodide to silver bromide preferably from 30/70 to 98/2, more preferably 50/50 to 95/5 to provide heat developable material with excellence in both stability and sensitivity. See column 6, lines 50-68 and column 2, lines 5-10. Toya et al (US Patent No. 5,998,126) discloses a photographic material containing silver halide having iodide content from 0.1 to 40 mole % and the material is capable to be exposed using laser beam from 300 to 700 nm. See column 16, lines 50-64 and column 2, lines 1-11. Katoh may not exemplified the use of the silver iodide, but suggest the use thereof as an alternative to other silver halide such as silver chloride, silver chlorobromide, silver iodochlorobromide, silver bromide or silver bromoiodide. However, the benefit of the use of silver halide having iodide in the heat-developable material has been known in Siga et al to provide a heat-developable with an excellence in both stability and sensitivity. Therefore, it would have been obvious to the worker of ordinary skill in the art at the time the invention use silver halide having high iodide content taught in Siga et al or Toya et al with a reasonable expectation of achieving a material having excellent in both stability and sensitivity, and thereby provide a material as claimed. Moreover, it would have been obvious to the worker of ordinary skill in the art at the time the invention was made to use the electron-transfer agent taught in Katoh such as hydrazine derivative or the alkene derivative in either in either layers taught in

Application/Control Number: 10/756,407

Art Unit: 1752

Katoh with a reasonable expectation of improving the image contrast because both layers of

Page 5

contains either silver halide or silver salt of an organic acid.

Conclusion

5. The lengthy specification has not been checked to the extent necessary to determine the

presence of all possible minor errors. Applicant's cooperation is requested in correcting any

errors of which applicant may become aware in the specification.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thorl Chea whose telephone number is (571) 272-1328. The

examiner can normally be reached on 9 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cynthia H Kelly can be reached on (571)272-1526. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tch Hh March 16, 2005

Chorl Chea

Primary Examiner

Art Unit 1752